

In the Claims

1.-14. (Canceled)

15. (New) Produce decontamination apparatus comprising a chamber for accepting produce to be decontaminated and/or sterilised, and means for producing a free radical saturated atmosphere within the chamber so that, in use, the free radical saturated atmosphere decontaminates and/or sterilises the produce.

16. (New) Apparatus as claimed in claim 15, wherein the means for producing a free radical saturated atmosphere comprises one or more first atomising sprayheads, a supply of ozonised liquid which is supplied to the first sprayheads, and means for breaking down the ozone forming part of the ozonised liquid once discharged from the first sprayheads.

17. (New) Apparatus as claimed in claim 16, wherein the means for breaking down the ozone is in the form of an ultraviolet light emitting device.

18. (New) Apparatus as claimed in claim 16, wherein the means for producing a free radical saturated atmosphere further comprises means for catalysing the breakdown of hydrogen peroxide formed from the ozone of the ozonised liquid once discharged.

19. (New) Apparatus as claimed in claim 18, wherein the means for catalysing the breakdown of the hydrogen peroxide includes one or more second atomising sprayheads, and a supply of catalysing liquid which is supplied to the second sprayheads, the catalysing liquid catalysing the breakdown of the hydrogen peroxide formed from the ozone of the ozonised liquid once discharged from the second sprayheads.

20. (New) Apparatus as claimed in claim 19, wherein the catalysing liquid includes ferric ions.

21. (New) Apparatus as claimed in claim 18, wherein the means for producing a free radical saturated atmosphere further comprises means for catalysing the breakdown of the ozone of the ozonised liquid once discharged.
22. (New) Apparatus as claimed in claim 15, wherein the means for catalysing the breakdown of the ozone includes a coating on the interior of the chamber, the coating having one or more ozone catalysing materials.
23. (New) Apparatus as claimed in claim 22, wherein at least one of the ozone catalysing materials is titanium oxide, titanium dioxide, or manganese oxide.
24. (New) Apparatus as claimed in claim 15, wherein the chamber houses two vertically spaced conveyor belts.
25. (New) Apparatus as claimed in claim 24, wherein the vertical spacing between the conveyor belts is adjustable.
26. (New) Apparatus as claimed in claim 15, wherein the chamber is open to atmospheric pressure.
27. (New) Produce decontaminated using produce decontamination apparatus as claimed in claim 15.